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# SYSTEM AND METHOD OF PROPAGATING EXCLUSION RECORDS IN A NETWORKED COMPUTER TELEPHONY INTEGRATION SYSTEM

#### FIELD OF THE INVENTION

2 This invention relates to automated telephone call processing

3 systems and more particularly, to a system and method of

'4 propagating exclusion records throughout a plurality of networked,

5 distributed computer telephony integration (CTI) systems so that

each system can update a call list that is being utilized in an

7 outgoing telephone call campaign.

### BACKGROUND OF THE INVENTION

9 Computer automation has found its way into every facet of

10 data processing including telephone call processing systems. For

11 example, since the 1980's, telephone call centers have employed

12 automated systems to increase call center efficiency. Such

automated systems include automated call placement systems and

14 automatic call distribution (ACD) systems, which were developed to

15 handle inbound and outbound calls more efficiently and to replace

16 banks of multi-button telephony sets and randomly-handled calls.

17 As call volumes increased, voice response units (VRU) were

18 developed to enable customers using touch-tone telephones to

19 directly interact a call center's host computer.

20 Predictive dialers were developed to automate outbound

1 calling functions. Predictive dialers increased productivity by

2 more than three hundred percent over manual dialing operations by

3 automatically screening out all "no answers", busy signals, and

4 answering machines, and only presented call center agents with

5 live voices.

Accordingly, it is now common for organizations who must make

7 and handle large numbers of telephone calls with their customers,

8 such as banks, credit card handling companies and telemarketers,

9 to utilize computerized telephony systems which receive lists of

.10 calls to be placed containing customer account information

11 including a telephone number, and which organize, prioritize and

12 control the calling of each customer account in the list.

Although such existing telephony systems vary extensively, 13 14 most systems are capable of receiving call records, organizing 15 them into groups or lists, often prioritizing or ordering the call records within the groups, and providing the call records to a 16 17 telephone dialing mechanism to be called and subsequently connected to an agent who will handle the call. Along with the 18 19 prior arts systems, however, come several drawbacks. 20 drawback relates to the fact that once a call group or list has 21 been established, many systems are incapable of "adding" to the 2.2 group dynamically, based on some recent event. In addition, most 23 systems are also not capable of dynamically altering the priority 24 of any given call record within a group once it has been 25 downloaded or prepared for download to the telephone call record 26 processing system. Such a feature is often an important

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1 consideration for certain telephone related applications.

2 For example, credit card processing organizations are becoming increasingly aware of the marked rise in fraudulent use 3 of credit cards. Since in many occasions any financial losses 4 from fraudulent use of credit cards may rest on the credit card 5 issuer, the issuer has a significant vested interest in and a 6 strong desire to detect fraudulent use of credit cards and most 7 importantly would like to detect even the potential fraudulent use 8 of a credit card as early as possible, in order to minimize 9 .10losses.

Accordingly, the credit card processing industry developed a series of "tests" which are applied to credit card usage in an effort to attempt to determine whether a particular credit card is potentially being used fraudulently. For example, one such test includes monitoring the period of time between the date of last use of a credit card and multiple current uses of a Statistics have shown that if a credit card is not credit card. used for an extended period of time and all of a sudden the card is used extensively in a short period of time, chances are that the card has been stolen and is being used fraudulently.

Another test or indicator is the amount or value of the charged transaction. Credit card processors can establish profiles of credit cards users including the average charge amount over a period of time and, if a charge amount is received which exceeds this average amount, a potential exists for fraudulent credit card usage.

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In certain circumstances, some credit card processors even 1 assign a numerical "score" value to a customer's account which 2 "score" reflects the relative potential for the existence of 3 fraudulent use of the credit card. As an example, a "score" value of "1" (one) may indicate only a small potential or likelihood for 5 fraudulent usage while a "score" of "10" (ten) , 6 in association with a customer's account may indicate a very high probability of 7 8 fraudulent usage.

In the past, credit card processing organizations have been able to provide groups of customer account records which have been identified as having a potential for fraudulent usage, and have been able to assign such groups to an automated telephone call record processing system for dialing at a later time. Given the real-time access to credit card activity which credit card processors now have, it is therefore often possible to spot potential credit card fraud in a short period of time. Therefore, a customer account which has received a low score in terms of probability of fraud during a call record download based on a prior day credit card activities may receive a very high score for probability of fraudulent credit card usage during the present day as credit card transactions are received by the credit card processor.

Given the present limitations in call record processing systems, however, is not possible, in real time, to update an existing customer account call record "score" in a previously downloaded call record list or group to indicate that the relative

from the call list.

1 probability of fraudulent credit card usage has "jumped" from a

2 lower value to a higher value, and to therefore to schedule the

3 call the customer immediately or at least sooner than previously

4 scheduled to verify whether or not the card has been stolen.

In the case of many prior art systems, this information will 5 not be downloaded to the call record processing system until the 6 next day, when it may be too late to determine that a credit card 7 has been lost or stolen and to prevent further usage. 8 credit card processing activities may, during the middle of the day, indicate potential fraudulent use of a credit card and in •10 this situation, it would also be desirable to immediately add this 11 call record to the list of call records to be processed for that 12 day so that the customer may be immediately called. Additionally, 13 the owner of the card may telephone in to report the loss of the 14 credit card and therefore, it is not necessary to telephone him or 15 16 This customer's name may therefore be immediately removed

Accordingly, systems and methods have been developed, such as 18 the one disclosed in the Applicant's U.S. Patent No. 5,832,068, 19 which is fully incorporated herein by reference, that provide a 20 data processing system with real time data record updating and 21 dynamic data record exclusion. The dynamic data record excluder 22 of '068 Patent includes a unique data record identifier generator, 23 responsive to at least one received data record, for generating a 24 unique data record identifier. A data record index stores at 25 least a portion of the received data record and the generated 26

- 1 unique data record identifier. Unique data record identifiers may
- 2 be based on one or more of various data record processing elements
- 3 such as time, date, time of record download, customer account
- 4 number, download cycle, or data record batch number.
- 5 In addition, where the processing system maintains a single
- 6 "version" or location in which all data records are stored, the
- 7 received data records may be compared against previously received
- 8 data records to determine whether or not the same or previous
- 9 version of the received data record was previously received, in
- '10 which case the previous version is excluded and the new version is
- 11 retained to be processed presently or at a later time.
- 12 Such a dynamic data record excluder determines whether the
- 13 received data record was previously received by comparing at least
- 14 a portion of the received data record with data stored in the data
- 15 record index. If a data record referencing the same account
- 16 number was previously received, the previously received data
- 17 record is discarded, marked "to be excluded" and/or a data record
- 18 exclusion indicator is generated, and only the newest record will
- 19 be processed. A data record exclusion list is maintained in
- 20 résponse to the dynamic data record excluder, for storing the
- 21 generated data record exclusion indicators or the list of data
- 22 records to be excluded from processing.
- However, the widespread use of computer networks has added
- 24 another layer of complexity to record exclusion systems. Today,
- 25 may companies and organizations utilize more that one call center,
- 26 each having its own computer telephony integration (CTI) system

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may still be called.

for placing and receiving calls. While distributing call center 1 2 operations does provide certain advantages to a company, it also provides a significant disadvantage with respect to call record 3 exclusion namely, an exclusion record generated by one CTI system 4 is not shared with the other distributed call center CTI systems. 5 Accordingly if a customer places an inbound call, which is handled 6 by a first call center and which results in the generation of an 7 exclusion record by that call center's CTI system, the customer 8 may still be called if the customer is the subject of a call 9 record slated for dialing by a dialer included in a CTI system at 10

13 line costs and will reduce call center productivity. Accordingly, what is needed is a system and method of propagating exclusion or priority records between a plurality of distributed, networked CTI systems so that an exclusion record or a priority call record generated by one of the CTI systems is

another of the distributed call centers. Therefore, the customer

This will result in unnecessary telephone

19 this manner, a generated exclusion record or priority call record

provided to the remaining networked, distributed call centers. In

will be more likely to result in the exclusion or prioritization 20

of a specified call record by all of the networked call centers. 21

#### SUMMARY OF THE INVENTION

23 A system for propagating at least one exclusion record 24 exclusion table by a computer in an integration (CTI) system at a first call center among a plurality 25

of networked distributed call centers is provided. Each of the first call center and the distributed call center include a computer telephony integration (CTI) system including a dynamic record excluding system having an exclusion table. The first call center and the distributed call centers are linked over a computer network. The exclusion record propagation system

7 includes an exclusion record exporter and an exclusion record

8 importer running on each said CTI system. Each exclusion record

9 exporter prepares and sends transfer files, including exclusion

10 records to be distributed to the networked distributed call

11 centers, to defined directories at each desired destination CTI

12 system.

Each exclusion record importer is configured to search its
defined directory at periodic intervals to identify new transfer
files and to copy the exclusion record included in the transfer
files to the appropriate exclusion table in its dynamic data
record exclusion system.

18 A method of propagating at least one exclusion record 19 maintained in an exclusion table by а computer telephony integration (CTI) system having a dynamic record excluder system 20 at a first call center among a plurality of distributed call 21 centers, wherein each distributed call center includes a computer 25. telephony integration (CTI) system having a dynamic record 23 excluder system including an exclusion table and wherein each 24 distributed call cetner is linked to said first call center over 25 a computer network, is also provided. The method begins by 26

1 maintaining at least one exclusion table in the first call

2 center's dynamic record excluder system. Each exclusion table is

3 configured to hold at least one exclusion record. Then, at

4 specified intervals, the exclusion table(s), including one or

5 more exclusion records, and a list of distributed call center CTI

6 systems to which the exclusion table(s) should be exported are

7 sent to an exclusion record exporter. At the exclusion record

8 exporter, the received exclusion table(s) are saved in a transfer

9 file. The transfer file is then sent to at least one of the

10 distributed call center CTI systems, where it is saved in a

11 defined directory.

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12 Each distributed call center CTI system then searches its

13 defined directory to identify new files added to the directory.

14 If a new file is identified, then the exclusion records stored in

15 the transfer file are copied to an appropriate exclusion table

16 maintained in said distributed call center CTI system's dynamic

17 data record excluder system.

## DESCRIPTION OF THE DRAWINGS

These and other features and advantages of the present

20 invention will be better understood by reading the following

21 detailed description, taken together with the drawings wherein:

Fig. 1 is a block diagram of a prior art dynamic record

23 excluder system;

Fig. 2 is a block diagram showing a plurality of networked

25 distributed call centers;

- Fig. 3 is a block diagram of one networked distributed call 1
- 2 center system including a dynamic data record excluder system
- according to the prior art and an exclusion record propagation 3
- system according to the teachings of the present invention; 4
- 5 4 is a more detailed block diagram showing
- components of an exclusion record exporter of the exclusion record 6
- propagation system of Fig. 3; 7
- 8 Fig. 5 is a more detailed block diagram showing the
- components of an exclusion record importer of the exclusion record 9
- propagation system of Fig. 3; and 10

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- Fig. 6 is a flow chart showing a method of propagating
- ] [] 12 exclusion records among a plurality of networked call centers
- ] [] 13 according to the teachings of the present invention.

#### DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

- 14 figures, a Turning now to the system and method
  - propagating exclusion records throughout a plurality of networked,
  - distributed computer telephony integration (CTI) systems 17
  - 18 disclosed. The disclosed exclusion record propagation system and
  - method works in conjunction with a plurality of network CTI 19
  - systems, each having a dynamic record excluder system, such as the 20
  - one disclosed in commonly owned U.S. Patent No. 5,832,068. 21
  - 22 Fig. 1 shows a dynamic record excluder system 10 according to
  - the teachings of the '068 Patent. The dynamic record excluder 23
  - system 10 includes one or more locations in which data records may 24
  - In such a system, it is not generally practical to 25 be stored.

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scan each and every data record storage location for previously 1

received data records for the same "account" or "matter" and 2

therefore, a data record exclusion list will be generated and 3

checked before any previously received and stored record is 4

5 processed.

The dynamic data record exclusion system 10 includes a unique 6 7 record identification generator 20 which receives data records 13 from data record source and assigns unique record identification 30 to each data record. The unique data record identification generator 20 utilizes a portion of the received data record such as account number, telephone number or other indicia which serves to uniquely identify a party, account, data record etc., about which the data record refers. In addition to the unique account information, the unique record identification generator 20 may append additional information to generate the unique data record identifier 22. The unique data identifier is appended to and/or included with the received data record 13a as shown generally by 22, and provided to the dynamic

Upon receipt of the data record with embedded or appended 20 unique data record identifier 22, the dynamic data record excluder 21 24 scans data record index 26 utilizing one or more portions of 22 the unique data record identifier 22, such as the account number 23 portion 28, previously generated to determine if a previous 24 "version" of a data record for the same "account" was received 25 prior to receipt of the current record. If no match is found, the 26

data record excluder 24 over path 23.

- 1 dynamic record excluder 24 will store both the account number
- 2 portion 28, and the identification portion 30 of the unique data
- 3 record identifier in the data record index 26 for later reference
- 4 and searching.
- If the dynamic data record excluder 24 discovers a matching
- 6 account number 28 or similar unique data record identification key
- 7 portion in the data record index 26, the dynamic data record
- 8 excluder 24 will retrieve the identification portion 30 of the
- 9 unique data record key stored in data record index 26 and store
- 10 both the account number 28 and the appended or separate
- 11 identification portion 30 in the record exclusion list 34.
- 12 If the dynamic record excluder 24 determines that there is no
- 13 data record to exclude, the data record with appended unique
- 14 identifier is transferred to a data record handler 32 which stores
- 15 the data record and appended unique record identifier in one or
- 16 more data record tables 40. The data record tables 40 may include
- 17 one master data record table 42 or more preferably, a plurality of
- 18 data record tables 44a-44c. This arrangement facilitates telephone
- 19 call record processing as is more fully disclosed in U.S. Pat. No.
- 20 5,495,523 assigned to the assignee of the present invention and
- 21 incorporated herein by reference.
- 22 If the dynamic record excluder 24 determines upon examining
- 23 or scanning the data record index 26 that there is a previous
- 24 entry with the same account number portion 28, the dynamic data
- 25 record excluder 24 proceeds to compare the identifier portion 30
- 26 stored in the data record index 26 with account number portion 28

to the just generated identifier portion 30 received from the unique data record identification generator 20. If, for example,

3 the identification portion 30 is cycle number, batch number, time,

4 or the like, the dynamic data record excluder will determine that

5 the earlier version of the received data record should be excluded

6 and will generate an indication that a particular account number

7 with a predetermined identifier portion 30 should be excluded from

8 any further processing, and store the account number 28 and

9 identification portion 30 in the exclusion list 34.

The dynamic data record exclusion system 10 will, at a predetermined time and/or under control of one or more users 50a-50c, initiate the data record processor 36 to process one or more data records. Record processor 36 will request one or more data records from record handler 32. Data record handler 32 will retrieve one

or more data records from one or more data record tables 44a-44c.

16 Once the data record is retrieved, data record handler 32 17 will examiner or search the data record exclusion list 34 for a matching account number portion 28. If the data record handler 32 18 locates a matching account number portion 28 19 in the record 20 list 34, the data record handler will mark 21 previously retrieved data record as "excluded from processing" and 22 will place the account number 28 and identification portion 30 in the record exclusion list 34. 23

One exemplary embodiment of the present invention is directed for use with a telephone call processing system such as a UNISON® call processing system available from Davox Corporation of 1 Westford, Mass., which description is incorporated herein by

2 reference. The present invention is also usable with other call

3 record processing systems as well as other data and record

4 processing systems.

5 Turning now to Figs. 2-5, a plurality of distributed call

6 centers 60 are shown networked with one another over a computer

7 network 62 which may be a local area network (LAN), wide area

8 network (WAN), global computer network such as an internet

9 connection, intranet connection, or other method of connecting

10 multiple systems together . Each call center 60 interfaces with

11 computer network 62 via at least a data connection 64 and a

12 network interface 68.

Each distributed call center 60 includes, among other systems

14 and components, a computer telephony integration (CTI) system 70,

15 having a dynamic data record exclusion system 10, as described

16 above. The dynamic data record exclusion system 10 includes at

17 least one record exclusion table 40 for storing at least one

18 exclusion record as described previously.

19 Each distributed call center CTI system 70 includes various

20 CTI system hardware and software components 72, which are well

21 known to those skilled in the art of computer telephony

22 integration, including one or more of a dialer 74, such as a

23 predictive or automated dialer, and an automatic call distributor

24 (ACD) 76, which are configured to interface a plurality of

25 customers using telephone trunk lines 4 with a plurality of CTI

26 system users 50, such as call center agents.

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Each distributed call center CTI system 70 also includes an 2 exclusion record propagation system 80 according to the teachings 3 of the present invention. Each exclusion record propagation system 80 includes an exclusion record importer 90 and 4 exclusion record exporter 100, which interface the dynamic record 5 exclusion system 10 of its corresponding CTI system 70. , 6 7 exclusion record importer 90 and exclusion exporter 100, 8 connection with the dynamic data record exclusion system 10, facilitate the transfer of exclusion records generated by the 9 dynamic data record exclusion system 10 between the plurality of 10 11 distributed call centers 60.

12 The exclusion record exporter 100 includes a transfer file 102 for receiving and storing at least one exclusion table 13 including at least one exclusion record generated by and to be 14 exported from the dynamic data record exclusion system 10 of one 15 call center CTI system 70. Also included in the exclusion record 16 17 exporter 100 is a file transfer engine 104, for transferring a transfer file 102 to at least one other distributed call center 60 18 19 CTI system.

20 exclusion record Each importer 90 includes a defined 92, for receiving at least one transfer file 102 21 directory transferred to the exclusion record importer 90 from at least one 22 exclusion record exporter 100 of another dynamic data record 23 24 exclusion system 10 of a CTI system 70 associated with a different, networked call center 60. 25 The exclusion record importer 90 also includes an import engine 94 for searching the 26

- 1 defined directory 92 to identify if the defined directory includes
- 2 one or more new transfer files 102.
- In one preferred embodiment of the invention, the exclusion
- 4 record propagation system is implemented in software using a
- 5 plurality of tables and scripts. Figs. 4 and 5 show the tables
- 6 and scripts associated with one software implementation of the
- 7 invention. The transfer engine 104 included in the exclusion
- 8 record exporter 100 (Fig. 4) is comprised of three tables 106-110
- 9 and three scripts 112-116.

10 The first table is a call center list table 106. center list table will contain a list of distributed call centers 11 12 60 to which exclusion records should be exported by the exclusion 13 record propagation system 80. The second table is a control table The control table 108 contains a list of exclusion tables 40 14 15 that should be replicated to the other distributed call centers 60 16 networked to the first call center over the computer network 62. The control table 108 also includes an indication of a last 17 18 exclusion record that was exported. The third table is an export 19 temporary table 110. The export temporary table 110 contains at 20 least one exclusion record that should be exported to at least one additional distributed call center 60. A Sybase Query Language 21 (SQL) statement is executed to insert records into the export 22 23 temporary table 110 from the exclusion table(s) 40 of the dynamic 24 data record exclusion system 10 included in the first call center CTI system 70. Then, a Bulk Copy (BCP) command will be executed 25 to copy the exclusion records included in the export temporary 26

- 1 temporary table 110 into the transfer file 102. As will be
- 2 explained below, the transfer file 102 will then be prepared for
- 3 transfer to at least one additional distributed call center 60.
- 4 The first script included in the software-implemented file
- 5 transfer engine 104 is a main script 112. The main script 112
- 6 uses the control table 108 to run an export script 114 for each
- 7 exclusion table 40 that should be copied to a transfer file 102.
- 8 The main script will also run a file transfer script 116, which
- 9 will copy the files created by the export script 114 to a defined
- 10 directory in each distributed call center 60 CTI system to which
- 11 the exclusion records should be exported.
- 12 The export script 114 receives, as a parameter, the name of
- 13 an exclusion table to be exported as well as a record number of
- 14 the last copied exclusion record. The export script 114 will then
- 15 clear the export temporary table 110 and insert and new exclusion
- 16 records found in the exclusion table 40 into the export temporary
- 17 table 110. The export script 114 will then copy the exclusion
- 18 records from the export temporary table 110 to the transfer file
- 19 102 using defined naming standards. In one preferred embodiment,
- 20 the exclusion records copied from the export temporary table 100
- 21 are copied as ASCII files.
- In one preferred embodiment, the file transfer script 116
- 23 includes an FTP (file transfer protocal) script which will
- 24 transfer each file in transfer file 102 created by the export
- 25 script to each of the distributed call centers 60 in the call
- 26 center list table 106 using file transfer protocol, which is one

- 1 preferred method of transferring files over a global computer
- 2 network, such as the Internet. The FTP script will copy the
- 3 transfer files in a defined directory 92 included in the exclusion
- 4 record propagation system 80 included in each distributed call
- 5 center 60 included in the call center list table 106.
- 6 The exclusion export process may be initiated at pre-
- 7 determined intervals using, for example, a clock driven signal. In
- 8 one preferred embodiment of the invention, which is utilized with
- 9 the dynamic data record exclusion system 10 described above, the
- 10 exclusion export process will be initiated by adding an entry in
- 11 the cron program, which will execute the main script 112 at
- 12 periodic intervals, such as every thirty minutes.
- In one preferred embodiment, the import engine 94 included in
- 14 each exclusion record importer 90 is also implemented using
- 15 software and comprises a search script 95, an import script 97,
- 16 and an import temporary table 99. The search script 95 will
- 17 search for new files containing exclusion records in the defined
- 18 directory 92 associated with the exclusion record importer 90.
- 19 Each time the search script 95 identifies a new file containing
- 20 exclusion records, it will execute the import script 97. The
- 21 import script 97 receives, as a parameter, the name of the new
- 22 file found by the search script 95 in the defined directory 92.
- 23 Each transfer file will include a header record defining an
- 24 exclusion table to which the exclusion records included in the
- 25 transfer file should be added. Each exclusion record included in
- .26 an identified file will be copied from the transfer file to the

import temporary table 99. Thereafter, the exclusion records 1

copied to the import temporary table 99 will be copied to the 2

3 appropriate exclusion table 40 included in the dynamic data record

exclusion system 10 at the call center CTI system 70. 4

Like the exclusion export process, the exclusion import 5

process will, preferably, be performed at periodic intervals, such 6

7 as every fifteen minutes. When used in conjunction with the

dynamic data record exclusion system 10 described above, the 8

initiation of the exclusion import process will be made using an 9

entry in the dynamic data record exclusion system's cron program. 10

One prefered embodiment of the scripts used for exclusion 11 12 record export and import are provided in Appendix A.

A method for propagating exclusion records between plurality of distributed call centers is also provided. 14 the distributed call centers includes a computer telephony 15 16 integration (CTI) system having a dynamic data record exclusion 17 system as described above. The dynamic data record exclusion system includes at least one exclusion table holding at least one 18 exclusion record to be propagated amongst the plurality of 19 distributed call centers, which are networked over a computer 20 21 The method 200 begins by maintaining at least one network. 22 exclusion table in a dynamic data record exclusion system at a first of the distributed call centers, step 210. Each exclusion 23 24 table includes at least one exclusion record. Next, at step 220, at least one exclusion table including at least one exclusion 25 record and a list of distributed call center CTI systems to which 26

- 1 the at least one exclusion table should be exported is sent, at
- 2 specified intervals, to an exclusion record exporter.
- Once received at the exclusion record exported, the at least
- 4 one exclusion table including at least one exclusion record is
- 5 saved in a transfer file, step 230. Thereafter, the transfer file
- 6 is transferred to a defined directory at at least one distributed
- 7 call center CTI system, step 240.
- 8 The method of propagating exclusion records also includes the
- 9 step of searching, using the exclusion record importer, the
- 10 defined directory in each distributes CTI system to identify is at
- 11 least one new transfer file has been transferred to the defined
- 12 directory, step 250.
- Finally, said at least one exclusion table including at least
- 14 one exclusion record stored in an identified new transfer file is
- 15 copied to an appropriate exclusion table maintained in a dynamic
- 16 data record exclusion system included in the distributed call
- 17 center CTI system at each distributed call center to which the
- 18 exclusion records are desired to be transferred, step 260.
- In the preferred embodiment, all of the distributed call
- 20 centers are networked using a global computer network, such as the
- 21 Internet. As such, one preferred method for transferring files
- 22 across the Internet is using file transfer protocol (FTP)
- 23 accordingly, the transfer of files between the plurality of
- 24 distributed call center CTI systems is preferably accomplished
- 25 using FTP.
- Accordingly, the disclosed system and method allows exclusion

- 1 records, which are generated at one of a plurality of distributed
- 2 call centers including CTI systems to be readily propagated to the
- 3 remaining call center CTI systems in the remaining plurality.
- 4 of distributed call centers. Therefore, if an exclusion record is
- 5 generated at a first of the plurality of distributed call centers,
- 6 the exclusion records will be shared amongst all of the
- 7 distributed call centers, thus preventing a dialer at any one of
- 8 the distributed call centers from dialing on a call record that is
- 9 the subject of an exclusion record generated at any of the
- 10 distributed call centers.
- 11 Modifications and substitutions by one of ordinary skill in
- 12 the art are considered to be within the scope of the present
- 13 invention which is not to be limited except by the claims which
- 14 follow.
- What is claimed is: